

ANNALS *of* PHYSICS

Editor

Herman Feshbach

Assistant Editors

Bernard T. Feld

Roman W. Jackiw

Arthur M. Jaffe

Richard Wilson

Editorial Council

A. Abragam

J. Bardeen

J. D. Bjorken

D. A. Bromley

L. D. Faddeev

V. L. Fitch

J. L. Greenstein

V. Hughes

P. C. Martin

B. Mottleson

C. K. N. Patel

J. Schwinger

I. I. Shapiro

I. Talmi

D. H. Wilkinson

A. Zichichi

Founding Editor

Philip M. Morse

VOLUME 106

1977

ACADEMIC PRESS

New York and London

A Subsidiary of Harcourt Brace Jovanovich, Publishers

Copyright © 1977 BY ACADEMIC PRESS, INC.

ALL RIGHTS RESERVED

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from the copyright owner.

CONTENTS OF VOLUME 106

NUMBER 1, JULY 1977

L. D. KNUTSON. Effects of the Deuteron D State in Sub-Coulomb (d, p) Reactions.	1
C. A. NORMAN. Plasma Turbulent Reactors.	26
A. M. LANE AND P. E. HODGSON. Behaviour of Single-Particle States and Their Eigenvalues near Zero Energy.	44
A. J. LEGGETT AND S. TAKAGI. Orientational Dynamics of Superfluid ^3He : A "Two-Fluid" Model. I. Spin Dynamics with Relaxation.	79
T. HAGIWARA, SO-YOUNG PI, AND A. I. SANDA. What Can We Learn from $e^+e^- \rightarrow U^+U^- \rightarrow \mu^\pm + \text{Hadrons} + \text{Neutrinos}$?	134
SO-YOUNG PI AND A. I. SANDA. $e^+ + e^- \rightarrow U^+ + U^- \rightarrow \mu^\pm + e^\pm + \text{neutrinos}$: General Considerations.	171
ABSTRACTS OF PAPERS TO APPEAR IN FUTURE ISSUES.	205

NUMBER 2, AUGUST 1977

THOMAS CURTRIGHT AND GHASSAN GHANDOUR. Stability and Supersymmetry: General Formalism and Explicit Two-Loop Applications.	209
STEPHEN L. ADLER, JUDY LIEBERMAN, AND YEE JACK NG. Regularization of the Stress-Energy Tensor for Vector and Scalar Particles Propagating in a General Background Metric.	279
AMOS LEV AND WILLIAM P. BERES. Valence-Doorway Model for Radiative Capture.	322
FRANÇOIS LURÇAT. Theory of Strong Interactions. I. Kinematics.	342
A. ISIHARA AND T. TOYODA. Correlation Energy of 2-D Electrons.	394
Y. MANOR. Caustics in General Relativity. I. The Phase Function.	407
HARTMUT KRASEMANN. Mass Breaking in a Relativistic Quark Model for Mesons.	424
CHARLES ACQUISTA AND JAMES L. ANDERSON. A Derivation of the Radiative Transfer Equation for Partially Polarized Light from Quantum Electrodynamics.	435
V. L. GUREVICH AND B. D. LAIKHTMAN. The Theory of Phonon Relaxation in He(II) at Low Temperatures.	444
J. P. DRAAYER, J. B. FRENCH, AND S. S. M. WONG. Strength Distributions and Statistical Spectroscopy. I. General Theory.	472
J. P. DRAAYER, J. B. FRENCH, AND S. S. M. WONG. Strength Distributions and Statistical Spectroscopy. II. Shell-Model Comparisons.	503
ABSTRACTS OF PAPERS TO APPEAR IN FUTURE ISSUES.	525
AUTHOR INDEX FOR VOLUME 106.	527

